

APPENDIX A

VERSION WITH MARKINGS TO SHOW CHANGE

7. (once amended) An isolated nucleic acid comprising a polynucleotide sequence associated with the senescence of a cell, wherein said polynucleotide sequence hybridizes to a nucleic acid having a sequence as set forth in SEQ. ID. NO:1 under stringent conditions, which comprise hybridization in a solution comprising 50% formamide at 42°C and washing in a solution comprising 0.2x SSC wash at 65°C.

29. (once amended) A kit for detecting whether a cell is undergoing senescence, said kit comprising:

a probe which comprises a polynucleotide sequence [associated with senescence] selected from the group consisting of SEQ ID NO:1, 2, 38, 55, 61, 67, 69, 70, and 73; and

a label for detecting the presence of said probe.

38. (once amended) A kit for detecting whether a cell is G0-arrested, said kit comprising:

a probe which comprises a polynucleotide sequence [associated with G0-arrested cells] selected from the group consisting of SEQ ID NO:1, 2, 38, 55, 61, 67, 69, 70, and 73; and

a label for detecting the presence of said probe.

55. (once amended) A kit for detecting whether a fibroblast cell is aging, said kit comprising:

a probe which comprises a polynucleotide sequence [associated with senescence] selected from the group consisting of SEQ ID NO:1, 2, 38, 55, 61, 67, 69, 70, and 73; and

a label for detecting the presence of said probe.

62. (once amended) A kit for detecting whether a skin cell is aging, said kit comprising:

a probe which comprises a polynucleotide sequence [associated with senescence] selected from the group consisting of SEQ ID NO:1, 2, 38, 55, 61, 67, 69, 70, and

73; and

a label for detecting the presence of said probe.